3/8317

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: L. E. Crane   Examiner # : 65753   Date: 12/21/00

Art Unit: 1623   Phone Number 308-4639   Serial Number: 09/371,747

Mail Box and Bldg/Room Location CM-1; 7E-12 Results Format Preferred (circle): PAPER DISK E-MAIL
Office: CM2-1: 8D-14

If more than one search is submitted, please prioritize searches in order of need.
****

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Please see copy of claims attached

Inventors (please provide full names):   "

Earliest Priority Filing Date: 08/10/98

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

    hosts infected with hepatitis B,

     Please search for methods of treating by the administration

     of any L-2'-deoxyribonucleaxid-nucleoside/nucleotide/ester-prodrug

     see the adenosine L-nucleosides in claim 2 and the cytidine, uridine

     xbxxxdxxxxkaxx guanosine, inosine, thymidine analog based

     methods of treatment in claims 3-8. (See also the additional
     active ingredients of claim 10).

   Please also search the compounds/compositions and prodrugs of

     2'-deoxy-L-inosine (claims 10-12

Point of Contact:
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Technical Info. Specialist
CM1 12C14 Tel: 305-4053

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STAFF USE ONLY

Type of Search	Vendors and cost where applicable
NA Sequence (#) _____	STN _____
AA Sequence (#) _____	Dialog _____
Structure (#) _____	Questel/Orbit _____
Bibliographic _____	Dr.Link _____
Litigation _____	Lexis/Nexis _____
Fulltext _____	Sequence Systems _____
Patent Family _____	WWW/Internet _____
Other _____	Other (specify) _____

Searcher: _____

Searcher Phone #: _____

Searcher Location: _____

Date Searcher Picked Up: _____

Date Completed: _____

Searcher Prep & Review Time: _____

Clerical Prep Time: _____

Online Time: _____

PTO-1590 (1-2000)

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=> d his
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(FILE 'HOME' ENTERED AT 16:43:38 ON 11 JAN 2001)

FILE 'REGISTRY' ENTERED AT 16:43:50 ON 11 JAN 2001
            ACT CRA747I/A

L1   105 SEA FILE=REGISTRY ABB=ON   PLU=ON   (160963-01-9/BI OR 170079-20-
            ----
L2   STR   *{ (pyrimide n purine) ring
L3   STR
L4   153171 S OC4/ES(P)((NCNC2-NCNC3/ES) OR (NCNC3/ES))   *parent set*
L5   6144 S L4 AND ERYTHRO?
L6   STR L2
L7   50 S L6 SSS SAM SUB=L4
L8   58210 S L6 SSS FUL SUB=L4   *subset #1   no stereochem*
L9   STR
L10   50 S L9 SSS SAM SUB=L8
L11   STR L9
L12   50 S L11 SSS SAM SUB=L8
L13   STR L11
L14   STR L13
L15   1 S L14 SSS SAM SUB=L8
L16   62 S L14 SSS FUL SUB=L8   *subset #2 w/ stereochem*
L17   9 S L1 AND L16
            SAVE L16 CRA747S/A

      FILE 'REGISTRY' ENTERED AT 17:59:21 ON 11 JAN 2001

      FILE 'HCAPLUS' ENTERED AT 17:59:41 ON 11 JAN 2001
L18   80 S L16
L19   1 S 2000:133703/AN
L20   79 S L18 NOT L19
L21   21 S L20 AND PY>1998
L22   58 S L20 NOT L21

      FILE 'REGISTRY' ENTERED AT 18:03:19 ON 11 JAN 2001
L23   0 S L16 AND VALIN?
L24   0 S L16 AND INOSIN?
            E INOSIN/CN
L25   STR L14
L26   0 S L25 SSS SAM SUB=L16
L27   STR L6
L28   13 S L27 SSS SAM SUB=L8
L29   268 S L27 SSS FUL SUB=L8   *subset #3 w/ AA side chain (no stereochem)*
            SAVE L29 CRA747Z1/A
L30   0 S L29 AND L16
L31   STR L14
L32   0 S L31 SSS SAM SUB=L16   *no L16 cpds have AA side chain*
L33   1 S L31 SSS FUL SUB=L16   *1 cpd w/ inosine base*

      FILE 'HCAPLUS' ENTERED AT 18:22:05 ON 11 JAN 2001
L34   4 S L33
L35   3 S L34 AND PY>1998
L36   1 S L34 NOT L35   *1 cite w/ inosine base*
L37   57 S L22 NOT L36
L38   3 S L37 AND HEPATITIS
L39   4 S L37(L)THU/RL
L40   7 S L39 OR L38   *7 cites*
L41   50 S L37 NOT L40

      FILE 'REGISTRY' ENTERED AT 18:28:21 ON 11 JAN 2001
L42   0 S RIBAVARIN/CN
            E RIBAVARIN/CN
L43   9 S E4-15
L44   1 S 3TC/CN
L45   1 S L-FMAU
L46   1 S DAPD/CN
L47   1 S FAMCICLOVIR/CN

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L48          1 S PENCICLOVIR/CN
L49          0 S BM2-200475/CN
L50          1 S PMEA/CN
L51          0 S DIPIVOXIL/CN
L52          1 S LOBUCAVIR/CN
L53          1 S GANCICLOVIR/CN


     FILE 'HCAPLUS' ENTERED AT 18:30:55 ON 11 JAN 2001
L54       3888 S L43-53
L55          2 S L54 AND L37    2 cites
L56         49 S L41 NOT L55    49 cites
L57          0 S L56 AND ANTI(W)VIRAL?


     FILE 'USPATFULL' ENTERED AT 18:35:43 ON 11 JAN 2001
L58          9 S L16      9 patents
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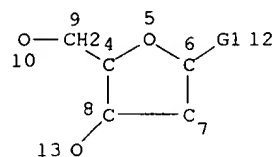
=> d que 118

L4   153171 SEA FILE=REGISTRY ABB=ON   PLU=ON   OC4/ES(P)((NCNC2-NCNC3/ES) *parent set*
          OR (NCNC3/ES))
L6   STR

Subset 1

```
   9      5
 O—CH2 4   O  6  G1 12
 10      C        C
         |        |
       8 C————C 7
 13 O              Hy@1    Hy@3
```

VAR G1=1/3
NODE ATTRIBUTES:
CONNECT IS E3   RC AT   4
CONNECT IS E3   RC AT   6
CONNECT IS E2   RC AT   7
CONNECT IS E3   RC AT   8
DEFAULT MLEVEL IS ATOM
GGCAT   IS MCY   UNS   AT   1
GGCAT   IS PCY   UNS   AT   3
DEFAULT ECLEVEL IS LIMITED
ECOUNT   IS E4 C   E2 N   AT   1
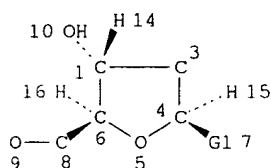ECOUNT   IS E5 C   E4 N   AT   3

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS   11

STEREO ATTRIBUTES: NONE
L8   58210 SEA FILE=REGISTRY SUB=L4 SSS FUL L6
L14   STR

Subset 2

```
 10 OH    H 14
      1 C————C 3
 16 H     |       .H 15
        C     4 C
 O— C  6  O     G1 7
 9   8    5
```

        Hy@11   Hy@13

VAR G1=11/13
NODE ATTRIBUTES:
CONNECT IS E3   RC AT   1
CONNECT IS E2   RC AT   3
CONNECT IS E3   RC AT   4
CONNECT IS E3   RC AT   6
DEFAULT MLEVEL IS ATOM
GGCAT   IS MCY   UNS   AT   11
GGCAT   IS PCY   UNS   AT   13
DEFAULT ECLEVEL IS LIMITED
ECOUNT   IS E4 C   E2 N   AT   11
ECOUNT   IS E5 C   E4 N   AT   13

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS   14

STEREO ATTRIBUTES:
STEREO DEFAULT ABSOLUTE
NUMBER OF CHIRAL CENTERS IS 3
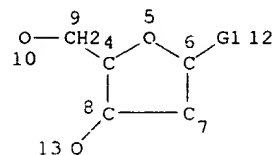
```
L16          62 SEA FILE=REGISTRY SUB=L8 SSS FUL L14
L18          80 SEA FILE=HCAPLUS ABB=ON   PLU=ON   L16
```

=> d que 130

L4   153171 SEA FILE=REGISTRY ABB=ON PLU=ON OC4/ES(P)((NCNC2-NCNC3/ES) *parent set*
               OR (NCNC3/ES))

L6   STR

Subset #1

```
   9      5
 O—CH2 4  O   6  Gl 12
10        C    C
          |    |
        8 C————C 7
          |
       13 O           Hy @1    Hy @3
```

VAR G1=1/3
NODE ATTRIBUTES:
CONNECT IS E3 RC AT   4
CONNECT IS E3 RC AT   6
CONNECT IS E2 RC AT   7
CONNECT IS E3 RC AT   8
DEFAULT MLEVEL IS ATOM
GGCAT   IS MCY UNS AT   1
GGCAT   IS PCY UNS AT   3
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS E4 C E2 N AT   1
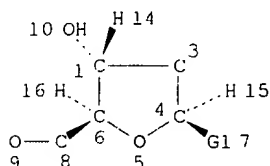ECOUNT IS E5 C E4 N AT   3

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE
L8   58210 SEA FILE=REGISTRY SUB=L4 SSS FUL L6
L14   STR

Subset #2

```
10 OH   H 14
     1 C————C 3
16 H.    |    |    .H 15
       C   4 C
  O— C 6  O   Gl 7
  9  8    5
```

       Hy @11 Hy @13

VAR G1=11/13
NODE ATTRIBUTES:
CONNECT IS E3 RC AT   1
CONNECT IS E2 RC AT   3
CONNECT IS E3 RC AT   4
CONNECT IS E3 RC AT   6
DEFAULT MLEVEL IS ATOM
GGCAT   IS MCY UNS AT 11
GGCAT   IS PCY UNS AT 13
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS E4 C E2 N AT 11
ECOUNT IS E5 C E4 N AT 13

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 14
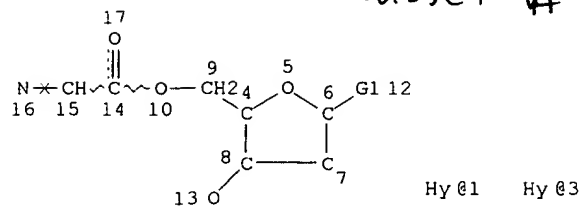
STEREO ATTRIBUTES:
STEREO DEFAULT ABSOLUTE
NUMBER OF CHIRAL CENTERS IS 3

L16   62 SEA FILE=REGISTRY SUB=L8 SSS FUL L14
L27   STR   Subset #3 amino acid side chain

$$\begin{array}{c} 17 \\ O \\ \| \end{array}$$

N—*—CH〜C〜O—CH2 ... (structure)

N—*—CH〜C〜O—CH2₄ O 6 ͵G1 12
16 15 14 10

VAR G1=1/3
NODE ATTRIBUTES:
CONNECT IS E3 RC AT   4
CONNECT IS E3 RC AT   6
CONNECT IS E2 RC AT   7
CONNECT IS E3 RC AT   8
DEFAULT MLEVEL IS ATOM
GGCAT   IS MCY UNS AT   1
GGCAT   IS PCY UNS AT   3
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS E4 C E2 N AT   1
ECOUNT IS E5 C E4 N AT   3
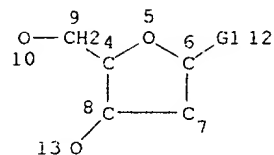
GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE
L29   268 SEA FILE=REGISTRY SUB=L8 SSS FUL L27
L30   0 SEA FILE=REGISTRY ABB=ON PLU=ON L29 AND L16

=> d que 134

L4   153171 SEA FILE=REGISTRY ABB=ON   PLU=ON   OC4/ES(P)((NCNC2-NCNC3/ES) *parent set*
          OR (NCNC3/ES))
L6   STR   *Subset #1*

```
   9      5
  O—CH2 4  O   6  G1 12
 10     C      C
         |      |
       8 C——————C 7
         |           Hy @1   Hy @3
   13  O
```

VAR G1=1/3
NODE ATTRIBUTES:
CONNECT IS E3   RC AT   4
CONNECT IS E3   RC AT   6
CONNECT IS E2   RC AT   7
CONNECT IS E3   RC AT   8
DEFAULT MLEVEL IS ATOM
GGCAT   IS MCY UNS AT   1
GGCAT   IS PCY UNS AT   3
DEFAULT ECLEVEL IS LIMITED
ECOUNT   IS E4 C E2 N AT   1
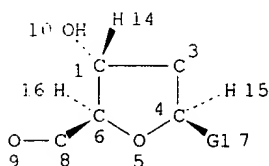ECOUNT   IS E5 C E4 N AT   3

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS   11

STEREO ATTRIBUTES: NONE
L9   58210 SEA FILE=REGISTRY SUB=L4 SSS FUL L6
L14   STR   *Subset #2*

```
  10 OH   H 14
    1 C————C 3
 16 H |      |  ..H 15
      C    4 C
   O—C 6  O   G1 7
   9  8   5
```

          Hy @11   Hy @13

VAR G1=11/13
NODE ATTRIBUTES:
CONNECT IS E3   RC AT   1
CONNECT IS E2   RC AT   3
CONNECT IS E3   RC AT   4
CONNECT IS E3   RC AT   6
DEFAULT MLEVEL IS ATOM
GGCAT   IS MCY UNS AT   11
GGCAT   IS PCY UNS AT   13
DEFAULT ECLEVEL IS LIMITED
ECOUNT   IS E4 C E2 N AT   11
ECOUNT   IS E5 C E4 N AT   13

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS   14

STEREO ATTRIBUTES:
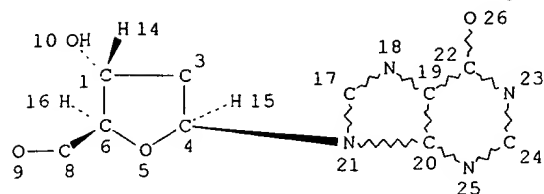STEREO DEFAULT ABSOLUTE
NUMBER OF CHIRAL CENTERS IS 3

SEARCHED BY SUSAN HANLEY 305-4053   Page 7

L16   62 SEA FILE=REGISTRY SUB=L8 SSS FUL L14
L31   STR $subset \, #4 \quad inosine \, base$

NODE ATTRIBUTES:
CONNECT IS E3   RC AT   1
CONNECT IS E2   RC AT   3
CONNECT IS E3   RC AT   4
CONNECT IS E3   RC AT   6
CONNECT IS E2   RC AT   17
CONNECT IS E2   RC AT   18
CONNECT IS E3   RC AT   19
CONNECT IS E3   RC AT   20
CONNECT IS E3   RC AT   21
CONNECT IS E3   RC AT   22
CONNECT IS E2   RC AT   23
CONNECT IS E2   RC AT   24
CONNECT IS E2   RC AT   25
CONNECT IS E1   RC AT   26
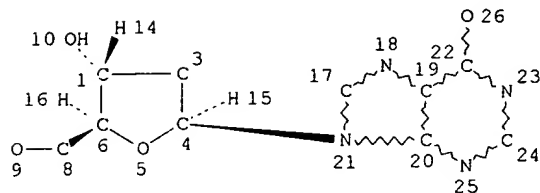DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS   21

STEREO ATTRIBUTES:
STEREO DEFAULT ABSOLUTE
NUMBER OF CHIRAL CENTERS IS 3
L33   1 SEA FILE=REGISTRY SUB=L16 SSS FUL L31
L34   4 SEA FILE=HCAPLUS ABB=ON PLU=ON L33

L16   62 SEA FILE=REGISTRY SUB=L8 SSS FUL L14
L31   STR

subset # 4 mosine base

NODE ATTRIBUTES:
CONNECT IS E3   RC AT   1
CONNECT IS E2   RC AT   3
CONNECT IS E3   RC AT   4
CONNECT IS E3   RC AT   6
CONNECT IS E2   RC AT   17
CONNECT IS E2   RC AT   18
CONNECT IS E3   RC AT   19
CONNECT IS E3   RC AT   20
CONNECT IS E3   RC AT   21
CONNECT IS E3   RC AT   22
CONNECT IS E2   RC AT   23
CONNECT IS E2   RC AT   24
CONNECT IS E2   RC AT   25
CONNECT IS E1   RC AT   26
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 21

STEREO ATTRIBUTES:
STEREO DEFAULT ABSOLUTE
NUMBER OF CHIRAL CENTERS IS 3
L33   1 SEA FILE=REGISTRY SUB=L16 SSS FUL L31
L34   4 SEA FILE=HCAPLUS ABB=ON PLU=ON L33